

Orig	inal operating manual:	elektronik ag		
Retroreflective Light Barriers	series RLR/ISN/ISD-002/	004/006-FXC/XCI(-OP)		
ISD-***-OP		ISN-***-OP		
	<ul> <li>Long sensing range</li> <li>Series ISD: ATEX and IECEx certain text and tex</li></ul>	tified <b>CF</b>		
	ISD: For use in Ex zones (0), 1, 2	, (20), 21, 22		
II 2(1)G IECEx-Designation	<ul><li>optical radiation can operate into</li><li>ISN: For use in Ex zones 2, 22</li></ul>	Ex Zones 0, 20		
Exclop is Call IIC T6 Gb Extb[op is Da] III B T100°C Db IP67	Robust retroreflective light barrier			
		II 3G Ex nA op is IIB T4 Gc II 3D Ex tc op is IIIA T135°C Dc IP67		
Technical Data Type	RLR-***-FXC         ISN-***-FXC-OI           *** : Sensing range, 002=2m, 0			
Type of Exprotection, Gas, according to 2014/34/EU	(adjustable by potentiometer, measured NONE II 3G Ex nA op is IIB T4	on reflector D=83mm)		
Type of Exprotection, Dust, according to 2014/34/EU	NONE II 3D Extc op is IIIA	II 2(1)D Ex tb [op is Da] IIIB		
Foruse in Ex Zones	T135°C Dc IP67           None         Zones 2, 22	T100°CDbIP67 Zones(0), 1, 2, (20), 21, 22		
Response time Response time	RLR/ISN/ISD-002/004-FXC(-OP)(-S181):5ms RLR/ISN/ISD-006-FXC(-OP)(-S181)(-S225):1ms			
Powerup delay time Light source	visible	00ms red, 623nm		
Beampattern (at a distance of 2m) Maximum radiant intensity	NOT LIMITED <=5mW/mm <sup>2</sup>	opr.12° <=5mW/mm <sup>2</sup>		
Maximum radiant power Supply voltage	NOT LIMITED <35mW 24VI	<15mW DC+-10%		
Absolute maximum input voltage Um Maximum current consumption	30VDC 45mA60mA			
Maximum power dissipation Output, series RLR/ISN/ISD-002/004-FXC(-OP)		1.4W		
Output, series RLR/ISN/ISD-002/004-FXC(-OP)-S181 Output, series RLR/ISN/ISD-006-FXC(-OP)	1 x PNP, short circuit protected, maximum 100mA 1 x Push-Pull, short circuit protected, maximum 100mA 1 x Push-Pull, short circuit protected, maximum 100mA			
Output, series RLR/ISN/ISD-006-FXC(-OP)-S225 Pollution indication output VA	1 x NPN, short circuit p	rotected, maximum 100mA rotected, maximum 100mA		
Utilization category, according to EN 60947-5-1 Emitter disable input, only types ***-XCI-****, optional	D	atible, Ri=10kΩ		
Housing	M30, brass M	58, nickel plated		
Enclosure rating according to EN 60529 Ambient working temperature range Tamb		IP67		
Storage temperature range Relative humidity	15%90%,	+70°C noncondensing		
Vibration and shock resistance Pollution degree, according to EN60664-1:2007		o 2kHz. Shock: 100g for 3ms 4		
Device designation, according to EN 60947-5-2 Connection cable	***-006-FXC: R3A30AS1/***-002/4-FXC: R3A30AP1/***-006-FXC-S225: R3A30AN1/***-**-S099: R3A30A*2 4 + PE x 0,5mm², TPU, oil resistent, shielded, leads numbering marked, length: 3m			
Connection cable, types***-XCI-*** (DI) Socket, types RLR/ISN-***- S099		leads numbering marked, length: 3m g type RSFM 5, 5 terminals		
Accessories included, all types Accessories included, only ISN-***-*** and ISD-***-***	- 2 nuts M30 (or 1 clamp, on request) - 1x Spare safety screw with packing ring for potentior	neter sealing		
Accessories, included, only ISN-***- S099	- 1x Safety lock device, mount at the cable connection			
Accessories, not included, only RLR/ISN-***- S099	Is Known To Be Non-Hazardous", self-sealing, f - Cord Set Lumberg RKTS 5-298/xx(straighttype),	or gluing on the cable connector		
Options	-Switching frequency: Up to 2kHz, on request			
	-ISD-002/004-FXC-OP- <b>S043</b> : With additional optic -RLR-002/004-FXC- <b>S109</b> : Working temperature range -20°C to +100°C			
	-RLR/ISN/ISD_****(-OP)-S147: Special gluing of the lenses -RLR/ISN/ISD_002/004-***(-OP)-S181: Withpush-pulloutput			
	-RLR/ISN/ISD-***-XCI(-OP) Withe	mitter disable input. (Not for types ***- ***(-OP)-S099) IPN output, function NO		
Function and display				
		—		
	Light beam interrupted LED shows red	Light beam reflected by the triple mirror LED shows green or yellow		
RLR/ISN/ISD-002/004-FXC(-OP)		o +24VDC		
Function at standard supply voltage wiring: Cable Socket				
+24VDC 1 1 0V 2 3	R 15Ω	Υ R 15Ω		
Output 3 4 Pollution indication output 4 2				
Disable input (onlyDI)5NC (to connect at 0V)6				
PE yel-grn 5 Cable shield white		OV		
***-006-FXC(-OP) / ***-002/004-FXC(-OP)-S181				
Function at standard supply voltage wiring: Cable Socket +24VDC 1 1				
0V 2 3	R 15Ω	$\begin{array}{c} \uparrow \\ \hline \\$		
Output 3 4 Pollution indicationoutput 4 2 Disable input (only -DI) 5				
NC (to connect at 0V) 6				
PE yel-grn 5 Cable shield white	• • • • • • • • • • • • • • • • • • •			
RLR/ISN/ISD-002/004/006-FXC(-OP)-S225 Function at standard supply voltage wiring:				
+24VDC Cable Socket				
0V         2         3           Output         3         4	R 15Ω Γ−√√√~−−⊙ Output	$\begin{bmatrix} R \ 15\Omega \\ - \swarrow & 0 \end{bmatrix}$		
Pollution indicationoutput 4 2 Disable input (onlyDI) 5	t NPN=ON			
NC (to connect at 0V) 6 PE yel-grn 5	\\$ \T\\$			
	OV	OV		

PE yel-grn 5 Cable shield white -- 0 V Function at reversed supply voltage wiring: At +24V at wire 2/pin 3 and 0V at wire 1 / pin1 the function is changed

ISD-FXC-OP-IECEX\_e4/2018-10-01/HB

-0 V

				1
	Dimensions 145	***-***-FXC wire No	***-***-XCI (DI) wire No	
	BLR/ISN/ISD_******(_OP) +24VDC	1	1	
		2 3	2 3	
		4	4	
	Potentiometer	 yellow-green	5 yellow-green	
	Dimensions Socket M12 13 145	,	<u> </u>	
	Connection layout <sup>5 terminals</sup> 30 110	pin No	color at cable	
	RLR/ISN-***-S099: +24VDC Pollution Out	1 2	brown white	
	ISN: Dust protection cap	3	blue	
	LED Output Potentiometer	4 5	black grey	
	IRN: With dustproof packing screw	-		
	Connection layout	***-***-FXC wire No	***-***-XCI (DI) wire No	
	ISD-002/004-FXC-OP-S043	1	1	
		2 3	2 3	
	RLR-006-FXC: × Pollution Out	4	4	
	LED DI Potentiometer PE	 vellow-areen	5 yellow-green	
	with dustproof packing screw	yenow-green	yellow-green	
	***-**-XCI (with optional disable input) Uin: 18V-28VDC,DI=+24V=Disable			
	Response time: <=200us	abled	200us Sensor	
	enabled DI occidentation	ds previous state	DI enabled =0V >=7.5ms	
	ATEX/IECEx RELATED MARKINGS CE 0158 Tamb: -20°C < Tamb < +60°C Manufacturer with add	ress		
	Type ISD: II 2(1)G Ex d [op is Ga] IIC T6 Gb, II 2(1)D Ex tb [op is Da] IIIB T100°C Db IP67 EC-Certification No. E			
	Type ISN: II 3G Ex nA op is IIB T4 Gc, II 3D Ex tc op is IIIA T135°C Dc IP67			
	Electrical data according to the chart Date of production: Numerals 5 to 8 of the ser			
-	(X designation of the certification number: Fibre optics must only be applicated with sensors with certificated limited Fouriorential Bonding prescription for Fx Ex Zone I The certificated limited			
		end of the cable ected outside th		
		on. Check the		
		prrosive holding		
	The cable shield is to connect to Pl	ction earth con		
-	Operating Manual, EC-/EU-Declaration of Conformity:			
	Mounting prescriptions If several sensors are installed close to Ex Protection: Sensors with disable input. By using the d			
	It is necessary to take into consideration the valid international and national be controlled in a short reaction time. If on	ly one sensor is		
	rules and regulations (EN 60079-14). The maximum input voltage Um=30VDC same time, a mutual influence is preclude must not be exceeded. The local equipotential bonding have to be done. The DI= 0V or not connected	ed. = emitter ena	abled	
	protective earth (PE) is solid connected with the housing. The cable have DI= High (24VDC)	= emitter dis	abled	
	to be installed and protected against damages. The cable with termination For a correct function the sensor must be en fittings, or in cable tray systems and installed in a manner to avoid tensile (DI=0V). If the DI input will be disabled, the			
	stress at the termination fittings. To connect cables inside hazardous status from the last enabled time. locations only use certificated Ex e housings. All cable terminals must be The DI input is PNP compatible.			
	locations only use certificated Ex e housings. All cable terminals must be The DI input is PNP compatible. connected outside hazardous locations. Additional optical lenses are not <b>Maintenance</b>			
	allowed in hazardous locations. In dust Ex zones, do not operate the sensors For a high reliability hold the lens and the without fixed dustproof sealing crew. After adjust the potentiometer, the special maintenance is required. If the lens of			
	dustproof sealing crew with undamaged packing ring, must be screwed down. should be cleaned with a non-aggressive		comes dirty they	
				5.0
	Damaged or lost screws or packing rings must be replaced. only be repaired by the manufacturer.			erath -19
	Damaged or lost screws or packing rings must be replaced. only be repaired by the manufacturer. <b>Type ISD-***-FXC/XCI-OP-S***</b> : Applicable in Ex zones 1, 2, 21, 22. The limited optical radiation can operate into hazardous locations 0 or 20. Series ISN-***-FXC/XCI-OP-S099: "WARN	cleaning liquid. IING - EXPLOS	Equipment must	Overath Fax -19
	Damaged or lost screws or packing rings must be replaced. only be repaired by the manufacturer. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 21, 22. The General safety instructions	cleaning liquid. IING - EXPLOS TURN OFF PC	Equipment must SION HAZARD DWER BEFORE	<b>bH</b> 91 Overath Fax -19 3m
	Damaged or lost screws or packing rings must be replaced. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 21, 22. The limited optical radiation can operate into hazardous locations 0 or 20. Type ISN-***-FXC/XCI-OP-S***: Only applicable in Ex zones 2, 22. The Type ISN-***-FXC/XCI-OP-S099: Only applicable in Ex zones 2, 22. The Type ISN-***-FXC/XCI-OP-S099: Only applicable in Ex zones 2, 22. The EQUIPMENT UNLESS POWER HAS BE	cleaning liquid. IING - EXPLOS TURN OFF PC S. DO NOT EN SWITCHED	Equipment must SION HAZARD DWER BEFORE DISCONNECT O OFF OR THE	
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	Damaged or lost screws or packing rings must be replaced. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 21, 22. The limited optical radiation can operate into hazardous locations 0 or 20. Type ISN-***-FXC/XCI-OP-S099: Only applicable in Ex zones 2, 22. The limited optical radiation can operate into hazardous locations 1 or 21. Type ISN-***-FXC/XCI-OP-S099: Only applicable in Ex zones 2, 22. The limited optical radiation can operate into hazardous locations 1 or 21. Do not AFX ISC XCI-OP-S099: Only applicable in Ex zones 2, 22. The limited optical radiation can operate into hazardous locations 1 or 21. Do not AFX ISC XCI-OP-S099: Only applicable is connected to the cable connector owhen the supply voltage is connected to the cable connector onusing at the connection cable. Lumberg cordsets RKTS 5-298/ x (Straight type) or RKWTH 5-298/xx (Right angle type), are allowed ONLY. It is necessary to take into consideration the mounting prescriptions ft is encossary to take into consideration the mounting prescriptions ft log not exceed the maximum ratings. The electrical connection cable shield must be exactly as shown in the connection cables must not be installed parallel ing notage-surfaced. The sensor works basically as light barriero The sensor can only be driven with a Triplex mirror. Only 2 times broken light ing notage-surfaced. The sensor detects reflected light, the output switches sensor works under safe conditions the LED shows green. If the sensor reflective mirrors. If the sensor detects reflected light, the output switches sensor works under safe conditions the LED shows green. If the sensor reflected sonly poor reflected light, the LED shows green. If the sensor works under safe conditions the LED shows green. If the sensor detects only poor reflected light	cleaning liquid. IING - EXPLOS TURN OFF PC S. DO NOT EN SWITCHED US". The mount protection cap sed for Acciden ny state! Wher r to take into c regulations: a 1999/92/EC. g standards: EN 60079-11:20 50079-31:2014, 1000-4-6, EN 6 Machine directiv ve: 2011/65/EL ve: 2011/65/EL vent. Our equippr verse effect on siliconized sub onger usable or ocal waste disp Ga] IIC T6 Gb, CEX BVS 14.01 70044F69/30pendoo d [op is Ga] IIC cation No. BVS ngsstelle, Car ennummer: 019 op is IIB T4 G	Equipment must SION HAZARD DWER BEFORE DISCONNECT OFF OR THE ing of the sensor results in a high nt-Prevention! In n installing and consideration the 014, EN 60079- EN 60529:2014, 1000-6-1/-2, EN ve: 2006/42/EC, J. ment is designed the environment. stances and use irreparable units osal regulations. Ex tb [op is Da] 08X. J. T6 Gb, II 2(1)D 10 ATEX E 130 I-Beyling-Haus, 58. c, II 3D Ex tc op er in accordance of quality type	nufacturer)Tippkemper - Matrix GmbHendingenMeegener Str. 43D-51491Tel.:+49Fax -29Tel.:+49Tel.:+60566-0info@tippkemper-matrix.com
	Damaged or lost screws or packing rings must be replaced. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 1, 22. The limited optical radiation can operate into hazardous locations 0 or 20. Type ISN-***-FXC/XCI-OP-S099: 'Only applicable in Ex zones 2, 22. The limited optical radiation can operate into hazardous locations 1 or 21. Do not separate the connector when the supply voltage is connected to the cable connector housing at the connection cable. Lumberg cordest RKTS 5-299. Xr (Straight type) or RKWTH 5-298/xx (Right angle type), are allowed ONLY. It is necessary to take into consideration the mounting prescriptions: Do not exceed the maximum ratings. The electrical connected to the protection connector housing at the connection cable sineld should be connected to the protection connector mounting prescriptions: Do not exceed the maximum ratings. The electrical connected to protection ingli bo taxeed. Connection cables must not be installed parallel to tavetse differed. The sensor works basically as light barrier on reflective mirrors. If the sensor detects reflected light, the output switches to ±44VDC or 0V dependent of the supply voltage. If the sensor works under safe conditions the LED shows green. If the sensor to the detection on thin, transparent films, it is necessary the potentiometer Potentiometer adjustment For the detection of thin, transparent films, it is necessary the potentiometer -Mount the sensor and the mirror. -Mount the sensor and the mirror. -Mount the potentiometer right just to the sensor is switching on. -Mount the potentiometer right just to the sensor is switching on. -Mount the potentiometer right just to the sensor is switching on. -Mount the potentiometer right just to the sensor is switching on. -Mount the potentiometer right just to the sensor is switching on.	cleaning liquid. IING - EXPLOS TURN OFF PC S. DO NOT EN SWITCHED US". The mount protection cap sed for Accider ny state! Whe to take into co regulations: a 1999/92/EC. BN 60079-1120 50079-31:2014, 1000-4-6, EN 6 Machine directi ve: 2011/65/EL ve: 2011/65/EL ve: 2011/65/EL isiliconized sub inger usable or bocal waste disp Ga] IIC T6 Gb, CEx BVS 14.01 07E0044F6A970pendoc d [op is Ga] IIC T6 Gb, Caston No. BVS ngsstelle, Car ennnummer: 011 op is IIB T4 G by manufactuer: X certification to the ATEX di	Equipment must SION HAZARD DWER BEFORE DISCONNECT 0 OFF OR THE ing of the sensor results in a high nt-Prevention! In n installing and consideration the 014, EN 60079- EN 60529:2014, 51000-6-1/-2, EN ve: 2006/42/EC, J. ment is designed the environment. stances and use irreparable units osal regulations. Ex tb [op is Da] 08X. ment T6 Gb, II 2(1)D 10 ATEX E 130 I-Beyling-Haus, 58. c, II 3D Ex tc op er in accordance of quality type rective 2014/34/	Tippkemper - Matrix GmbH           Meegener Str. 43         D-51491           29         Tel.:+49 2206 9566-0           info@tippkemper-matrix.com
	Damaged or lost screws or packing rings must be replaced. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 21, 22. The limited optical radiation can operate into hazardous locations 0 or 20. Type ISN-**-FXC/XCI-OP-S099: WARN ONLY applicable in Ex zones 2, 22. The limited optical radiation can operate into hazardous locations 1 or 21. Do not separate the connector when the supply voltage is connected to the cable connector housing at the connection cable. Lumberg cordsets RKTS 5-298/ xx (Straight type) or RKWTH 5-298/xx (Right angle type), are allowed ONLY. It is necessary to take into consideration the protection cap for the connector manufacturer. In dusty locations, the protection cap for the sensor socket must be fitted, when no connection cable is connected. General mounting prescriptions: Do not exceed the maximum ratings. The electrical connections must be function The sensor can only be driven with a Triplex mirror. Only 2 times broken light beams will be detected. The cable shield should be connected to the contector nurror. If the sensor detects reflected light, the output switches detects only poor reflected light, the LED shows yellow and the pollution indication output VA switches to +24VDC. If no reflected light will be recognized, the LED shows red, the output switches detects only poor reflected light, the LED shows yellow and the pollution indication output VA switches to +24VDC. If no reflected light will be recognized, the LED shows red, the output switches detects only poor reflected light, the LED shows yellow and the pollution indication of thin, transparent films, it is necessary the potentiometer For the detection of thin, transparent films, it is necessary the potentiometer algutter on the potentiometer left to the sensor is switching on. -Check the safe function of the sensor. The output must works without any of the devices with the EC standards ar	cleaning liquid. IING - EXPLOS TURN OFF PC S. DO NOT EN SWITCHEE US". The mount protection cap sed for Accideu ny state! Wher r to take into c regulations: a 1999/92/EC. g standards: EN 60079-1:20 50079-31:2014, 1000-4-6, EN 6 Machine directive: ve: 2011/65/EL ent. Our equipr verse effect on a siliconized sub nger usable or bocal waste disp Ga] IIC T6 Gb, CEX BVS 14.01 07004F6A970eendoc ind fop is Ga] IIC ication No. BVS ngsstelle, Car ennnummer: 01 op is IIB T4 Gb by manufactuer: X certification to the ATEX di EX ZQS / E118 and directives a	Equipment must SION HAZARD DWER BEFORE DISCONNECT 0 OFF OR THE ing of the sensor results in a high nt-Prevention! In n installing and consideration the 014, EN 60079- EN 60529:2014, 51000-6-1/-2, EN ve: 2006/42/EC, J. ment is designed the environment. stances and use irreparable units osal regulations. Ex tb [op is Da] 08X. ment T6 Gb, II 2(1)D 10 ATEX E 130 I-Beyling-Haus, 58. c, II 3D Ex tc op er in accordance of quality type rective 2014/34/ 8. The conformity and the EC-type	nufacturer)Tippkemper - Matrix GmbHendingenMeegener Str. 43D-51491Fax -29Tel.:+4922069566-0info@tippkemper-matrix.com
	Damaged or lost screws or packing rings must be replaced. Type ISD-***-FXC/XCI-OP-S***: Applicable in Ex zones 1, 2, 21, 22. The Ilimited optical radiation can operate into hazardous locations 1 or 21. Type ISD-***-FXC/XCI-OP-S***: Only applicable in Ex zones 2, 22. The Ilimited optical radiation can operate into hazardous locations 1 or 21. Type ISD-***-FXC/XCI-OP-S099: Only applicable in Ex zones 2, 22. The Ilimited optical radiation can operate into hazardous locations 1 or 21. Do the additional adhesive warming label must be fixed to the connector housing at the connection cable. Lumberg cordsets RKTS 5-298/ xx (Straight type) or RKWTH 5-298/xx (Right angle type), are allowed ONLY. ti s necessary to take indo consideration the mouting prescription of the connected short. The cable shield should be connected to the sensor socket must be fitted, when no connection cable is connected. General mounting prescriptions: Do not exceed the maximum ratings. Function The sensor can only be driven with a Triplex mirror. Only 2 times broken light indication output VA switches to +24VDC. If no reflected light, the output switches For the detection of thin, transparent films, it is necessary terefore the maximum ratings. Furction Turm the potentiometer light usit to the sensor is switching off. Turm the potentiometer light usit to the sensor. The output switches For the detection of thin, transparent films, it is necessary terefore the maximum of energy and resources. No lo must be disposed of in accordance with le Entrification ny types ISD: Ex d (lop is Ill T100°C D IP67. Certification N. IBC T100°E CN IP67. ATEX declaration to the ATEX directive 2014/3/EU. ATE ATEX certification, types ISD: Il 2(1)G Ex a transition and the impror. Turm the potentiometer light usit to the sensor is switching off. Turm the potentiometer light usit to the sensor is switching off. Turm the potentiometer light usits the sensor is switching off. Turm the potentiometer light usits the sensor is switching off.	cleaning liquid. IING - EXPLOS TURN OFF PC S. DO NOT EN SWITCHED US". The mount protection cap sed for Acciden ny state! Wher r to take into co regulations: a 1999/92/EC. g standards: EN 60079-11:20 50079-31:2014, 1000-4-6, EN 6 Machine directive: ve: 2011/65/EL ve: 2011/65/EL ve: 2011/65/EL control of the form siliconized sub onger usable or ocal waste disp Ga] IIC T6 Gb, CEX BVS 14.01 70044F64970endoo d [op is Ga] IIC T6 aby manufactuent: X certification to the ATEX di EX ZQS / E118 and directives a n of the Quality	Equipment must SION HAZARD DWER BEFORE DISCONNECT OFF OR THE ing of the sensor results in a high nt-Prevention! In n installing and consideration the 014, EN 60079- EN 60529:2014, 51000-6-1/-2, EN ve: 2006/42/EC, J. ment is designed the environment. stances and use irreparable units osal regulations. Ex tb [op is Da] 08X. ment T6 Gb, II 2(1)D 10 ATEX E 130 I-Beyling-Haus, 58. c, II 3D Ex tc op er in accordance of quality type rective 2014/34/ 8. The conformity and the EC-type / Safety System lares: <i>Y</i> Mach	nufacturer)Tippkemper - Matrix GmbHendingenMeegener Str. 43D-51491Fax -29Tel.:+4922069566-0info@tippkemper-matrix.com

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